



UniGene

ORGANIZED VIEW OF THE TRANSCRIPTOME

PubMed Nucleotide Protein Genome Structure Popset Taxonomy

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UGID:675343 UniGene Hs.460184 Homo sapiens (human) MCM4

SELECTED PROTEIN SIMILARITIES

Order cDNA clone, Links

Minichromosome maintenance complex component 4 (MCM4)

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e v e = 1000 mage frage (100)	Reference Protein	Species	Id (%)	Len (aa)
XP_528129.2	PREDICTED: minichromosome maintenance protein 4	P. troglodytes	100.0	862
NP_877423.1	minichromosome maintenance complex component 4	H. sapiens	100.0	862
NP_032591.2	minichromosome maintenance complex component 4	M. musculus	98.1	861
NP_001081448.1	cdc21 protein	X. laevis	92.8	862
NP_944595.1	MCM4 minichromosome maintenance deficient 4, mitotin	D. rerio	88.9	749
NP_477185.1	disc proliferation abnormal CG1616-PA	D. melanogaster	76.1	865
NP_490962.1	yeast MCM (licensing factor) related family member (mcm-4)	C. elegans	69.0	81
XP_001700810.1	minichromosome maintenance protein 4	C. reinhardtii	62.5	543
NP_179236.3	DNA replication licensing factor, putative	A. thaliana	59.6	844
NP_015344.1	Essential helicase component of heterohexameric MCM2-7 complexes which bind pre-replication complexes on DNA and melt the DNA prior to replication; accumulates in the nucleus in G1; homolog of S. pombe Cdc21p; Mcm4p	S. cerevisiae	57.4	93
XP_331738.1	hypothetical protein	N. crassa	57.2	99

GENE EXPRESSION

Tissues and development stages from this gene's sequences survey gene expression. Links to other NCBI expression resources.

Expression Profile: View expression levels using UniGene's EST

ProfileViewer

[Show more entries with profiles like this]

Note: Highly represented (9.1 pct) in cDNA library dbEST:3374,

HT0268.

GEO profiles: Gene expression profiles in the NCBI Gene Expression

Omnibus database

cDNA Sources: testis; brain; embryonic tissue; mixed; mouth; skin; lymph

node; intestine; uncharacterized tissue; placenta; ovary; kidney; uterus; cervix; stomach; epididymis; pancreas; heart; salivary gland; bladder; thyroid; spleen; trachea; tonsil; ascites; lymph; lung; thymus; liver; mammary gland; eye; bone marrow; connective tissue; esophagus;

EXHIBIT

9a

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prostate; blood; adrenal gland; bone; muscle; vascular; larynx; amniotic fluid

MAPPING POSITION

Genomic location specified by transcript mapping, radiation hybrid mapping, genetic mapping or cytogenetic mapping.

Chromosome:

8

Map position:

8q11.2

UniSTS entry:

Chr 8

0111 0

RH80868

UniSTS entry:

Chr 8

SHGC-35380

UniSTS entry: UniSTS entry:

MCM4 RH102573

UniSTS entry:

G35510

UniSTS entry:

Chr 8

STS-N27515

SEQUENCES

Sequences representing this gene; mRNAs, ESTs, and gene predictions supported by transcribed sequences.

mRNA sequences (9)

NM_005914.2	Homo sapiens minichromosome maintenance complex component 4 (MCM4), transcript variant 1, mRNA	P
NM_182746.1	Homo sapiens minichromosome maintenance complex component 4 (MCM4), transcript variant 2, mRNA	Р
CR606514.1	full-length cDNA clone CS0DK011YN01 of HeLa cells Cot 25-normalized of Homo sapiens (human)	Р
CR598188.1	full-length cDNA clone CS0DJ012YI18 of T cells (Jurkat cell line) Cot 10-normalized of Homo sapiens (human)	P
AK022899.1	Homo sapiens cDNA FLJ12837 fis, clone NT2RP2003228, highly similar to H.sapiens P1-Cdc21 mRNA	Р
AM493756.1	Homo sapiens partial mRNA for minichromosome maintenance protein 4 (MCM4 gene) isolated from bone marrow	Р
X74794.1	H.sapiens P1-Cdc21 mRNA	PA
AK309812.1	Homo sapiens cDNA, FLJ99853	Р
BC031061.1	Homo sapiens minichromosome maintenance complex component 4, mRNA (cDNA clone MGC:33310 IMAGE:5273457), complete cds	PA

EST sequences (10 of 812) [Show all sequences]

AA978201.1	Clone IMAGE:1578660	mixed	3' read P
AA992118.1	Clone IMAGE:1622043	embryonic tissue	3' read P
AA992744.1	Clone IMAGE:1623457	embryonic tissue	3' read P

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AI004065.1	Clone IMAGE:1619903	testis	3' read P
AA921783.1	Clone IMAGE:1543478	mixed	3' read P
Al039224.1	Clone IMAGE:1658029	embryonic tissue	3' read A
Al039402.1	Clone IMAGE:1658818	embryonic tissue	3' read P
AI050010.1	Clone IMAGE:1699394	kidney	3' read A
AI073482.1	Clone IMAGE:1640256	testis	3' read P
R20801.1	Clone IMAGE:130112	placenta	3' read P

Download Sequences

Key to Symbols

P Has similarity to known Proteins (after translation)
A Contains a poly-Adenylation signal
S Sequence is a Suboptimal member of this cluster

M Clone is putatively CDS-complete by MGC criteria



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EXHIBIT

9с

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